Amendments to the Claims

This listing of the claims shall replace all prior versions and listings of the claims in this application Listing of the Claims:

- 1. (canceled)
- (canceled)
- 3. (currently amended) A process for attaching an α-amino protected amino acid or peptide having an unprotected C-terminus to another amino acid or peptide which is protected by an αamino protecting group and which is attached to a support during solid phase peptide synthesis comorising:
 - a) cleaving the α-amino protecting group from the amino acid or peptide attached to the support;
 - b) performing a thorough washing; and
 - c) adding an α-amino protected amino acid or peptide having an unprotected C- terminus and coupling it to the amino acid or peptide that is attached to the support and that now has an unprotected N-terminus, to form an amide bond;

wherein an ammonium, phosphonium or sulfonium a phosphonium, sulfonium, or quaternary ammonium salt (X**)_m(Y***)_m, which is soluble in a solvent used in this process is added in step a), b) or c), and wherein, if the salt-(X**)_m(Y***)_n, is added in step c), the solvent is neither a chloroform/phenol nor a chloroform/trifluoroethanol mixture, and wherein X represents a cation, n represents the charge of the cation, Y represents an anion and m represents the charge of the anion, a and wherein the quaternary ammonium salt is selected from the group consisting of benzyltrimethylammonium hydroxide, benzyltrimethylammonium chloride and benzyltrimethylammonium carbonate, the phosphonium salt is tetrabutylphosphonium bromide and the sulfonium salt is triethylsulfonium tetrafluoroborate.

- (previously presented) The process according to claim 3, which additionally comprises the following step:
 - d) performing a thorough washing;
 wherein step d) is performed after step c).

- 5. (currently amended) A process for attaching an α-amino protected amino acid or peptide having an unprotected C-terminus to another amino acid or peptide which is protected by an αamino protecting group and which is attached to a support during solid phase peptide synthesis comprising:
 - a) cleaving the α-amino protecting group from the amino acid or peptide attached to the support;
 - b) performing a thorough washing:
 - c) adding an α-amino protected amino acid or peptide having an unprotected C- terminus and coupling it to the amino acid or peptide that is attached to the support and that now has an unprotected N-terminus, to form an amide bond; and
 - d) performing another thorough washing;

wherein at least in step a), an ammonium, phosphonium or sulfonium a phosphonium, sulfonium, or quaternary ammonium salt-(X**)_m-(Y**)_m, which is soluble in a solvent used in this step is added, and wherein X-represents a eation, n represents the charge of the eation, Y represents an anion and m represents the charge of the anion the quaternary ammonium salt is selected from the group consisting of benzyltrimethylammonium hydroxide, benzyltrimethylammonium chloride and benzyltrimethylammonium carbonate, the phosphonium salt is tetrabutylphosphonium bromide and the sulfonium salt is triethylsulfonium tetrafluoroborate.

- 6. (currently amended) A process for attaching an α-amino protected amino acid or peptide having an unprotected C-terminus to another amino acid or peptide which is protected by an αamino protecting group and which is attached to a support during solid phase peptide synthesis comprising:
 - a) cleaving the α-amino protecting group from the amino acid or peptide attached to the support;
 - b) performing a thorough washing;
 - c) adding an α-amino protected amino acid or peptide having an unprotected C- terminus and coupling it to the amino acid or peptide that is attached to the support and that now has an unprotected N-terminus, to form an amide bond:
 - d) performing another thorough washing;

wherein at least in step b), an ammonium, phosphonium or sulfonium a phosphonium, sulfonium, or quaternary ammonium salt-(X**)_m(Y***)_n; which is soluble in a solvent used in this step is added, and wherein X represents a cation, n represents the charge of the cation, Y represents an anion and m represents the charge of the anion the quaternary ammonium salt is selected from the group consisting of benzyltrimethylammonium hydroxide, benzyltrimethylammonium chloride and benzyltrimethylammonium carbonate, the phosphonium salt is tetrabutylphosphonium bromide and the sulfonium salt is triethylsulfonium tetrafluoroborate.

- 7. (currently amended) A process for attaching an α-amino protected amino acid or peptide having an unprotected C-terminus to another amino acid or peptide which is protected by an αamino protecting group and which is attached to a support during solid phase peptide synthesis comprising:
 - a) cleaving the α-amino protecting group from the amino acid or peptide attached to the support;
 - b) performing a thorough washing;
 - c) adding an α-amino protected amino acid or peptide having an unprotected C- terminus and coupling it to the amino acid or peptide that is attached to the support and that now has an unprotected N-terminus, to form an amide bond; and
 - d) performing another thorough washing;

wherein at least in step c) an ammonium, phosphonium or sulfonium a phosphonium, sulfonium, or quaternary ammonium salt-(X**)_m-(X***)_m-(X***)_m-which is soluble in a solvent used in this step is added, and wherein the solvent is neither a chloroform/phenol nor a chloroform/trifluoroethanol mixture, and wherein X represents a eation, n represents the charge of the eation, Y represents an antion and m represents the charge of the anion the quaternary ammonium salt is selected from the group consisting of benzyltrimethylammonium hydroxide, benzyltrimethylammonium chloride and benzyltrimethylammonium carbonate, the phosphonium salt is tetrabutylphosphonium bromide and the sulfonium salt is tricthylsulfonium tetrafluoroborate.

- 8. (currently amended) A process for attaching an α-amino protected amino acid or peptide having an unprotected C-terminus to another amino acid or peptide which is protected by an αamino protecting group and which is attached to a support during solid phase peptide synthesis comprising:
 - a) cleaving the α -amino protecting group from the amino acid or peptide attached to the support;
 - b) performing a thorough washing:

- c) adding an α-amino protected amino acid or peptide having an unprotected C- terminus and coupling it to the amino acid or peptide that is attached to the support and that now has an unprotected N-terminus, to form an amide bond; and
- d) performing another thorough washing:

wherein at least in step d), an ammonium, phosphonium or sulfonium a phosphonium, sulfonium, or quaternary ammonium salt- $(X^m)_m(Y^m)_m$; which is soluble in a solvent used in this step is added, and wherein X-represents a cation, n represents the charge of the cation, Y-represents an anion and m represents the charge of the anion the quaternary ammonium salt is selected from the group consisting of benzyltrimethylammonium hydroxide, benzyltrimethylammonium chloride and benzyltrimethylammonium carbonate, the phosphonium salt is tetrabutylphosphonium bromide and the sulfonium salt is triethylsulfonium tetrafluoroborate.

- (canceled) The process according to claim 3, wherein the salt (X**)_m(Y***)_n, where X represents a cation, n represents the charge of the cation, Y represents an anion and m represents the charge of the anion, is selected from the group consisting of quaternary ammonium salts.
- 10. (canceled) The process according to claim 9 wherein Y^m-is selected from the group consisting of fluoride, chloride, bromide, iodide, hydroxide, carbonate, hydrogenocarbonate, mitrate, phosphate, hydrogenophosphate, dihydrogenophosphate, tetrafluoroborate, hexafluorophosphate, acetate, carboxylates, cyanides, isocyanates, tetra alkylborates, totra-arylborates, trifluoroacetate, tosylate, mesylate and any mixture thereof, wherein Y represents an anion and m represents the charge of the anion.
- 11. (canceled) The process-according to claim 9 wherein the quaternary ammonium salt is selected from the group consisting of benzyltrimethylammonium hydroxide; benzyltrimethylammonium carbonate, the phosphonium salt is tetrabutylphosphonium bromide and the sulfonium salt is triethylsulfonium tetrafluoroborate.
- 12. (previously presented) The process according to claim 3, wherein the salt added in step a), b), or c) is also added in one or more of the other steps.

- 13. (previously presented) The process according to claim 3, wherein the α-amino protecting group is Fmoc (9-fluorenylmethoxycarbonyl) or Nsc (p-nitrophenylsulphonylethoxycarbonate) or any other base-cleavable protecting group.
- 14. (previously presented) The process according to claim 3, wherein the α-amino protecting group is Boc (tert-butoxycarbonyl), Trt (trityl), Bpoc (2-p-biphenylisopropyloxycarbonyl) or any other acid-cleavable protecting group.
- 15. (previously presented) The process according to claim 3, wherein the α-amino protecting group is selected so that neither acid nor base treatment is required for its cleavage.
- 16. (currently amended) The process for synthesising synthesizing a peptide of a desired sequence comprising:
 - a) attaching a first amino acid or peptide, having an α-amino protecting group, via its Cterminus to a functionalized support;
 - b) performing the process according to claim 3 with the next amino acid or peptide in said desired sequence;
 - repeating step b with the appropriate amino acids or peptides until the desired sequence is achieved; and
 - d) cleaving the assembled peptide from the support by an appropriate method.
- 17. (canceled)
- 18. (canceled)
- (currently amended) The process for synthesising synthesizing a peptide according to claim 16, wherein no wash step is performed between steps a) and b).